

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900008-6

L 5149-66
ACC NR: AT5023957

SUB CODE: NP/ SUBM DATE: 28Apr65/ ORIG REF: 002/ OTH REF: 006

Card 4/4

L 5149-66
ACC NR: AT5023957

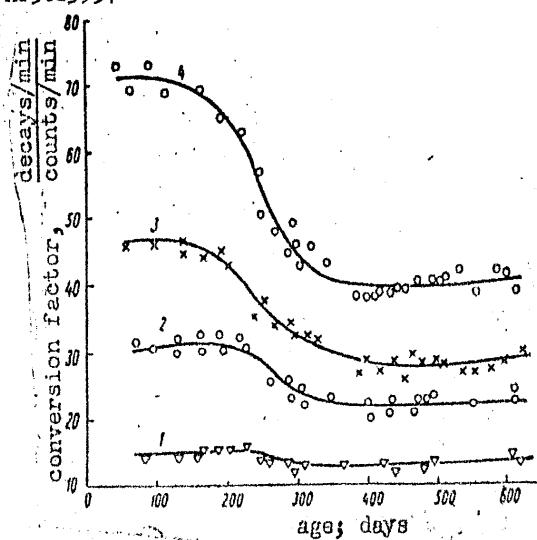


Fig. 1. Change in conversion factor with age of the mixture of fission products for specimens of various weights:
1- 0.1 g; 2- 0.6 g;
3- 1.3 g; 4- 2.0 g

Orig. art. has: 3 formulas, 2 tables, and 7 graphs.

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ACC NR: AT5023957

age (time after the explosion took place) with the same mass of a radionuclide for which the decay rate is known (e.g., Cs¹³⁷, Sr⁹⁰), or by taking ordinary atmospheric dust and "dirtying" it with fission products from neutron-irradiated U²³⁵ so as to imitate fallout. Here, the first method is used on specimens taken from atmospheric aerosols and ash deposits collected in the region of Leningrad from 1961 to 1963. The effective age of the mixture of fission products is given by ratios of isotopes such as Ba¹⁴⁰/Ce¹⁴¹, Ce¹⁴¹/Ce¹⁴⁴, etc, whose activities do not depend strongly on the nature of the original fissile fuel of the bomb (U²³⁵, U²³⁸, Pu²³⁹). Typical data are shown in Fig. 1. The numerical results are limited in application of β -activity measurements made with the counter BFL-25 under conditions closely resembling the experiments described here.

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L 5149-66 EWT(m)/EWA(h) GS

ACC NR: AT5023957

SOURCE CODE: UR/0000/65/000/000/0435/0445

AUTHORS: Gritchenko, Z. G.; Gedeonov, L. I.; Flegontov, V. M.

31

ORG: none

B7/

TITLE: On measurement of β -activity of a sum of fission products 19

SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Odninsk, 1964.

Radioaktivnyye izotopy v atmosfere i ikh ispol'zovaniye v meteorologii (Radioactive isotopes in the atmosphere and their use in meteorology); doklady konferentsii. Moscow, Atomizdat, 1965, 435-445

TOPIC TAGS: beta counter, radioactive fallout, fission product, radioactive aerosol, radioactivity, uranium, plutonium, beta radiation/ BFL 25 counter

ABSTRACT: To measure the amounts of bomb fission products in the air or on various objects (fallout results), it is necessary to know the conversion rule for obtaining absolute quantities from a counting rate. The conversion factor may be found by comparing the counting rate for a given mass of specimen of a known

Card 1/4

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L 32589-66

ACC NR: AT5023948

⁹⁰Sr content was determined by standard radiochemical methods, Cs¹³⁷ - by the use of a gamma ray spectrometer with a 40x40mm NaJ(Tl) crystal, and a multichannel amplitude and pulse analyzer AI-100. Table 1 shows the contents of Sr⁹⁰ and Cs¹³⁷ in the soil: The cumulative fallouts from the atmosphere are shown in Table 2. Observation of the results show that Sr⁹⁰ is leached out by the precipitation and migrates down easier than Cs¹³⁷, which has a tendency practically to remain in the upper layer of the soil. Considering the fact that the soil retains, on the average, 1.7 times less Sr⁹⁰ than the amount reaching the surface of the ground, and the results of experiments in artificial leaching-out of soil samples contaminated with Sr⁹⁰, one may arrive at the following conclusions. Sr⁹⁰ penetrates into the lower layers of the soil together with the precipitation. The depth of Sr⁹⁰ penetration and its distribution depends upon the type of the soil, its physical and chemical features and the amount of precipitation. The orig. art. has 3 figures, 4 tables.

SUB CODE: 1848; SUBM DATE: 28Apr65; ORIG REF: 002; OTH REF: 001

(18)

Card 3/3 40

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ACC NR: AT5023948

TABLE 1.

Content of Sr⁹⁰ and Cs¹³⁷ in the soil
near the town of Petrokrepot'
(millicuries/ km²), and their ratio.

YEAR: (ToA)	Sr ⁹⁰	Cs ¹³⁷	Cs ¹³⁷ /Sr ⁹⁰
1958	8,4	11,2	1,3
1959	7,4	20,0	2,7
1960	7,6	26,5	3,5
1961	10,2	22,0	2,2
1962	14,1	38,5	2,7

TABLE 2.

Cumulative fallout of Sr⁹⁰ and Cs¹³⁷
in Octobers of 1958-1962, and their
ratio.

YEAR: (ToA)	Sr ⁹⁰	Cs ¹³⁷	Cs ¹³⁷ /Sr ⁹⁰
1958	10,5	20,8	2,0
1959	13,8	26,6	1,9
1960	14,3	27,6	1,9
1961	15,2	27,8	1,8
1962	24,8	48,5	2,0

L 32589-66 EWT(1)/EWT(m)/FCC /EWA(h) GS/GW

UR/0000/65/000/000/0345/0350

ACC NR: AT5023948

AUTHOR: Gedeonov, L.I.; Vinogradova, V.K.; Rosyanov, S.P.; Gritchenko, Z.G.

ORG: None

TITLE: Accumulation of Sr⁹⁰ and Cs¹³⁷ in the soils of the Leningrad region

SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Odninsk, 1964. Radioaktivnyye izotopy v atmosfere i ikh ispol'zovaniye v meteorologii (Radioactive isotopes in the atmosphere and their utilization in meteorology); doklady konferentsii. Moscow, Atomizdat, 1965, 345-350

TOPIC TAGS: radioactive fallout, isotope, radioactive contamination

ABSTRACT: Accumulation of the radioactive products of nuclear explosions in the soil is related to the basic problem of contamination of the biosphere. The soil is an effective retainer of the isotopic fallout, which acquires here an access to the channels of food and nutrition. This work reports data on the contents of Cs¹³⁷ and Sr⁹⁰ in soil samples taking during 1958-1962 in the region of Petrokrepot', as well as data on cumulative deposits of the isotops. Soil samples, 20 x 20 cm. were cut from the surface of a horizontal open meadow plot each October. The sample depth was governed by the distribution of the fallout in depth and was 5 cm. for Sr⁹⁰ and 1 cm. for Cs¹³⁷.

UDC: None

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L 54466-65

ACCESSION NR: AT5013644

their mixtures led the authors to conclude that in the samples studied, part of this isotope enters into the structure of various silicate compounds; this was confirmed by a 100% dissolution of Cs¹³⁷ when the samples were decomposed by mixtures of the concentrated acids HF + HCl and HF + HNO₃. When either of these two mixtures is employed, the radioactive nuclides Cs¹³⁷, Sb¹²⁵, Ce¹⁴¹, Ce¹⁴⁴, Ru¹⁰³, Ru¹⁰⁶, Zr⁹⁵, Nb⁹⁵, Be⁷ and other γ -emitting components of radioactive fallout pass into solution. At the same time, SiO₂ is removed, whose content in some samples makes up 50% of the total weight. This procedure makes it possible to avoid errors caused in the radiochemical determination of Cs¹³⁷ by its incomplete dissolution when weaker solutions of HCl, HNO₃, and HCl are used. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 14Jan64

ENCL: 00

SUB CODE: IC, ES

NO REF Sov: 004

OTHER: 001

B&B
Card 2/2

L 54466-65 ENT(m)/EWP(t)/EWP(b)/EWA(h) IJP(c) JD/JG/GS

ACCESSION NR: AT5013644 UR/0000/65/000/000/0108/0113
543.53:546.36:551.577

30
B+1

AUTHOR: Shvedov, V. P.; Zhilkina, M. I.; Gritchenko, Z. G.; Gedeonov, L. I.

TITLE: Behavior of Cs-137 in the course of analysis of samples of atmospheric precipitation

SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Radiohimicheskiye metody opredeleniya mikroelementov (Radiochemical methods for determining trace elements); sbornik statey. Moscow, Izd-vo Nauka, 1965, 108-113

TOPIC TAGS: rain analysis, fallout analysis, radiocesium determination, radioactive aerosol, Gamma spectroscopy

ABSTRACT: The aim of this work was to study the behavior of the radioactive isotope Cs-137 in the course of decomposition by mineral acids of dry residues from the evaporation of rain and aerosol samples collected in the vicinity of Leningrad in 1958-1961). A scintillation gamma-spectrometer with a multichannel pulse analyzer was used in determinations of Cs-137. An analysis of the extraction of Cs-137 by H₂O, and aqueous solutions of HCl, HNO₃, HF of various strengths and

BELYAYEV, L.I.; GEDIONOV, L.I.; GRITCHENKO, Z.G.; MAKSIMOVA, A.M.;
SHVEDOV, V.P.; YAKOVLEVA, G.V.

Radioactive fallout in the Crimea in 1960-1961 Atom. energ. 15
no. 3:264-265 S '63. (MIRA 16:10)

(Crimea--Radioactive fallout)

SHVEDOV, V.P.; GRITCHENKO, Z.G.; GEDEONOV, L.I.

Be⁷ concentration in the surface layer of the air and in atmospheric precipitations. Atom. energ. 12 no.1:64-66 Ja '62. (KIRA 15:1)
(Beryllium) (Atmosphere)

The Calorimetric Determination of the Half-Life of Ra²²⁶ SOV/56-34-3-39/55

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR
(Radium Institute AS USSR)

SUBMITTED: December 6, 1957

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SOV/56-34 3-39/55
²²⁶

The Calorimetric Determination of the Half-Life of Ra

thermal effect of the α - and β -radiation of 1 g radium. Calculating these values, the absorption of the γ -rays in the preparation itself (self-absorption), in the protective container, in the glass of the ampules and within the walls of the calorimetric cylinder, were taken into consideration. Also the increase of the thermal effect due to the accumulation of Po²¹⁰ and RaE in the preparations was taken into account. ϵ (the energy liberated in the calorimeter in a process of decay) was calculated on the basis of the last experimental data on the α - and β -spectra of the elements of the radium-series for an equilibrated preparation of Ra²²⁶. This energy amounted to 25.335 MeV ($\pm 0.5\%$). Utilizing this value, the authors found the value $T = 1577 \pm 9$ years for the half life of Ra²²⁶. Hence results the value $z = 3.71 \pm 0.02 \cdot 10^{10}$ decay-processes/sec.g. for the specific activity. Further measurements of these important values z and T for Ra²²⁶ with the methods discussed here and also by other methods, would be desirable. There are 1 table and 10 references, 4 of which are Soviet.

Card 2/3

SOV/56-34 3-39/55

AUTHORS: Gorshkov, G. V., Gritchenko, Z. G., Shimanskaya, N. S.

TITLE: The Calorimetric Determination of the Half-Life of Ra²²⁶

(Kalorimetricheskoye opredeleniye perioda poluraspada Ra²²⁶)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958.
Vol. 34, Nr 3, pp. 756 - 757 (USSR)

ABSTRACT: First, brief reference is made to some previous works dealing with the same subject. The authors of the present report carried out careful calorimetric measurements on 3 equilibrated radium preparations which were liberated from possible contaminations by means of additional crystallization. The purity of these preparations was controlled by means of the spectroscopic method. The results of the immediate weighing of the radium preparations prior to their sealing, their radium-content and the results of the calorimetric measurements carried out by means of a double static calorimeter, are contained in a table. The last column of the table contains the values found here for $Q_{\alpha+\beta}/p$ - the

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BRITISH MUSEUM

How to register ownership of information - COUNCIL REGULATION
of 20.7.1985

J. Machalitak Figure po delam (obrannost) vlozil v rok 1978
pouze zobrazovatelnym.

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GRAMASHEV, A.F.; GRITCHENKO, V.A.; IOYRYSH, A.I.; POPOV, V.A.; STEPANOV,
V.N.; BLOKHIN, N.N., red.; ANDREYEVA, L.S., tekhn. red.

[Invention and efficiency promotion in the U.S.S.R.] Izobretatel'stvo i ratsionalizatsiya v SSSR. Moskva, Izd-vo VTsSPS
Profizdat, 1962. 335 p.
(MIRA 15:5)
(Technological innovations)

GRITCHENKO, V.A.

Inventors and innovators, move to the front in the struggle
for technical progress. Elek. i tepl. tiaga 3 no.7:1-3
(MIRA 13:3)
J1 '59.

1. Nachal'nik byuro po delam izobretatel'stva Ministerstva
putey soobshcheniya.
(Railroad engineering)

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GRITCHENKO, V.A., inzh.

Competitions of railroad efficiency promoters. Izobr. i rats.
3 no.5:40-41 My '58. (MIRA 11:9)
(Railroads) (Efficiency, Industrial)

CRITCHENEL, V.A.

For wider development of inventiveness and efficiency in the
locomotive industry. Elek. i tsel. torg no.7:1-4 Jl 152. (MLRKA 10:1)

1. Nachal'nik byuro po delam izobretatel'stva Ministerstva putev
scobshcheniya.
(Locomotives)

GRITCHENKO, V.A., inzhener.

Inventions for use in railroad transportation. Izobr. v SSSR, l
no. 2:13-19 Ag '56. (MLRA 10:3)
(Railroads--Equipment and supplies)

ALFEROV, A.A. ---- (continued) Card 2.

MOSKVIN, G.N., redaktor; RUBINSSTEYN, S.A., redaktor; TSYPIN, G.S.,
redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor;
CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A.,
redaktor

[Railroad handbook] Spravochnaya knizhka zheleznodorozhnika. Izd.
3-e, ispr. i dop. Pod obshchey red. V.A. Garnyka. Moskva, Gos.
transp.zhel-dor. izd-vo, 1956. 1103 p. (MLRA 9:10)

1. Nauchno-tehnicheskoye obshchestvo zheleznodorozhnogo transporta.
(Railroads)

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALEYEV,
A.U.; GRIGOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, N.N.; ZAKHAROV,
P.M.; ZOBNIK, N.P.; IVANOV, I.I.; IL'IN, I.P.; KMETIK, P.I.; KUDRYA-
SHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PERTSOVSKIY, L.M.;
POGODIN, A.M.; RUDOV, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY,
I.P.; SITNIK, M.D.; TETEREV, B.K.; TSETYKIN, I.Ye.; TSUKANOV, P.P.;
SHADIKYAN, V.S.; ADELUNG, N.N., retsenzent; AFANAS'YEV, Ye.V., retsen-
zent; VIASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VORO-
NOV, N.M., retsenzent; ORITCHENKO, V.A., retsenzent; ZHEREBIN, M.N.,
retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent;
KOCHUROV, P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO,
A.P., retsenzent; LOBANOV, V.V., retsenzent; MQRZOV, A.S., retsen-
zent; ORLOV, S.P., retsenzent; PAVLUSHKOV, E.D., retsenzent; POPOV,
A.N., retsenzent; PROKOF'YEV, P.F., retsenzent; RAKOV, V.A., retsen-
zent; SINEGUBOV, N.I., retsenzent; TERENIN, D.F., retsenzent; TIKHO-
MIROV, I.G., retsenzent; URBAN, I.V., retsenzent; FIALKOVSKIY, I.A.,
retsenzent; CHEPYZHES, B.F., retsenzent; SHEBYAKIN, O.S., retsenzent,
SHCHERBAKOV, P.D., retsenzent; GARNYK, V.A., redaktor; LOMAGIN, N.A.,
redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; PORE-
DIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOV, K.N.,
redaktor; CHEREVATYY, N.S., redaktor; ARSHINOV, I.M., redaktor;
BABELYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VERSHINSKIY, S.V..,
redaktor; GAMBURG, Ye.Yu., redaktor; DERIBAS, A.T., redaktor;
DOMEROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; MIKHAYEV, A.P.,
redaktor

(Continued on next card)

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AM5023887

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TABLE OF CONTENTS [abridged]: -- 64

Ch. I. Giving first aid to victims of nuclear explosion -- 3

Ch. II. Giving first aid to victims of chemical warfare 6- 39

Ch. III. Methods of preventing infection in bacteriological warfare -- 50

SUB CODE: CB

SUBMITTED: 31Oct63

NO REF SOV: 000

OTHER: 000

Card 272

L 3129-66 EWT(1)/EWA(j)/EWT(m)/EWA(b)-2/EWA(h) RO/JK
AM5023887 BOOK EXPLOITATION UR/

Grichenko, Nikolay Vasil'yevich; Danishevskiy, Isay Naumovich;
Mashkov, Vasiliy Vasil'yevich (Docent; Candidate of Medical Sciences)

Giving first aid to victims of mass-destruction weapons (Okazaniye pervoy meditsinskoy pomoschi postradavshim ot oruzhiya massovogo porazheniya). Moscow, Izd-vo DOSAAF, 1964. 63 p. illus. Number of copies printed not given.

TOPIC TAGS: first aid, chemical warfare, bacteriological warfare

PURPOSE AND COVERAGE: This book is intended for the general public. It is a civil-defense manual describing methods of giving first aid to victims of mass-destruction weapons. A study of this manual is recommended by the authors in order to better acquaint the public with the problem of self preservation in the event of war.

GRITCHENKO, N.V., polkovnik med. sluzhby; KADER, Ya.M., red.;
KONOVALOVA, Ye.K., tekhn. red.

[How to fight fatigue and raise endurance in combat]
Kak borot'sia s utomleniem i povysit' vynoslivost' v
boiu. Moskva, Voenizdat, 1963. 95 p. (MIRA 16:10)
(Russia--Armed forces--Physical training)
(Military education)

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GRITCHENKO, N. V. (Monika)

Physical culture for elderly persons. Nauk. i stran. 1963, No. 15
(MIRA 1637)
Ap '63.
(EXERCISE)

GRITCHENKO, Nikolay Vasil'yevich; LAGUTINA, Ye.V., red.; NAZAROVA,
A.S., tekhn. red.

[The work and rest schedule] Rezhim truda i otokyha. Moskva,
Izd-vo "Znanie," 1962. 43 p. (Narodnyi universitet kul'tury:
Fakul'tet zd zdorov'ia, no.8) (MIRA 15:8)
(Work) (Rest)

FOGEL'SON, L.I., prof., red.; SOKOL'NIKOV, O.I., red.; GRITCHENKO,
N.V., red.; BEL'CHIKOVA, Yu.S., tekhn.red.

[Disability evaluation in internal diseases] Vrachebno-trudovaya
ekspertiza pri vnutrennikh bolezniakh. Moskva, Gos.izd-vo med.
lit-ry, 1960. 349 p. (MIRA 13:11)
(DISABILITY EVALUATION) (MEDICINE, INTERNAL)

GRITCHENKO, N.V.

[Physical culture and health] Fizkul'tura i zdorov'ia. Kyiv, Derzh.
med. vyd-vo URSR, 1954. 87 p.
(PHYSICAL EDUCATION AND TRAINING)

CARMEAN, A.; BOGDANESCU, Teodor; STAVNICI, Gheorghe; TUDOR, Ionut
SURDEANU, Marica

Properties of shear colonies of *S. typhimurium* obtained by the
use of neomycin and streptomycin. Arch. Roum. path. exp.
microbiol. 23 no. 4, pp. 389-396.

1. Travail de l'Institut "Dr. I. Cantacuzino", Service des
cultures microbiologiques. Submis le June 14, 1964.

SASARMAN, A.; HORODNICEANU, Thea; GRITAENCO, Viorica; ANTOHI, Maria;
SURDEANU, Marieta.

Contribution to the study of the isolation of *Clostridium perfringens*.
IV. Effect of inculcation at 46° - 47° on the isolated strains.
Arch. roum. path. exp. microbiol. 23 no.3:697 - 704 S'63

1. Travail de l'Institut "Dr. I. Cantacuzino"; Service des Cul-
tures Microbiennes. Bucarest.

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GRIFFITHS

MESROBEANU, Lydia; BALDOVIN, C.; MITRICA, N.; SARAGEA, A.; GRITAENCO, V.

Studies on the purification and concentration of Dick toxin. Stud.
cercat. inframicrobiol., Bucur. 6 no.3-4:523-532 July-Dec. 1955.

(SCARLET FEVER

vaccine, purification & concentration of Dick toxin)

(VACCINES AND VACCINATION

scarlet fever vaccine, purification & concentration of
Dick toxin)

GEORGIYEV, A.Y. [Georgiev, A.I.]; GRISTAN, Ye.L.; GRIZHANKOVA, Ye.A.

Studying the concentratability of manganese-carbonate ore from the "Obrochishche" deposit in the People's Republic of Bulgaria for the purpose of obtaining raw materials suitable for the making of ferroalloys. Izv. vys. ucheb. zav., Chern. met. 8 no.9:22-27 '65. (MIRA 18;9)

1. Moskovskiy institut stali i spлавov.

GRISZIN, A.

"Heroic acts of Soviet pilots in the battle for Stalingrad" p. 4 (Okrzydła Polski, Vol. 9, no. 1, Jan 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Unclassified

GRISYUK, N.M.

Hereditary thorn formation in the honey locust. Biul. MOIP. Otd.
biol. 64 no.2:117-122 Mr-Ap '59. (MIRA 12:10)
(Thorns) (Honey locust)

N.M.
GRISYUK, M.M. [Hrysiuk, M.M.], kand. sel'skokhozyaystvennykh nauk (Belya
TSerkov', Kiievskaya oblast')

"Aleksandriia," a dendrologic park. Nauka i zhyttia 9 no.9:34-36
S '59. (MIRA 13:1)
(Belya TSerkov--National parks and reserves)

GRISYUK, N.M.

Polygamy and monoeciousness in *Gleditschia triacanthos* L. Bot.zhur.
43 no.10:1488-1490 0 '58. (MIRA 11:11)

1. Dendropark "Veselyye Bokoven'ki" Dolinskogo rayona Kirovogradskoy oblasti.
(Honey locust) (Plants, Sex in)

GRISYUK, N.M.

Burygaster integriceps Put. as a pest of forest varieties. Zool.
zhur. 35 no.3:468-470 Mr '56. (MLRA 9:7)

1. Institut laga AN USSR.
(Burygasters) (Tree--Diseases and pests)

GRISYUK, Nikolay Mikhaylovich; LOYTSKER, Ye.B., redaktor izdatel'stva;
RAKELINA, N.P., tekhnredaktor

[The "Veselye Bokoven'ki" arboretum] Dendrologicheskii park
"Veselye Bokoven'ki." Kiev, Izd-vo Akad. nauk USSR, 1956.
118 p. (MIRA 10:4)
("Veselye Bokoven'ki" Preserve)

(GRISYUK)

BASHMAKOV, N.A., inzhener; GRISYUK, F.F., inzhener.

Experience with using the T-165 vibrating machines. Mekh.
stroi. 13 no.8:25-29 Ag '56. (MLRA 9:10)

(Concrete)

SOV/51-6-2-1/39

On the Theory of a High-Frequency Flame Discharge

temperatures and consequently flame discharges are produced with difficulty in the town gas and not at all in hydrogen. Inert gases are poor heat conductors but transfer of energy between electrons and gases is difficult because of the absence of easily excited molecular vibrations. For this reason flame discharges in pure inert gases (He, Ar) reach comparatively low temperatures. There are 4 tables, 1 figure and 14 references, 4 of which are Soviet, 3 German, 2 English, 2 Rumanian, 1 Dutch, 1 Czech and 1 international.

ASSOCIATION: Universitet im. K.N. Parkhons, Bukharest (University imeni Ch. N. Parhon, Bucharest)

SUBMITTED: October 6, 1958

Card 5/5

On the Theory of a High-Frequency Flame Discharge

SOV/51-6-2-1/39

in Table 1 and they are compared with the experimental values in Table 2 (the calculated and experimental values of T_m are given in Table 2, columns 3 and 4, respectively). Table 3 compares the calculated (column 5) and measured (column 6) values of currents in discharges with $N = 12.4\text{-}100 \text{ Mc/s}$ and $L = 50\text{-}200 \text{ W}$. Calculated electron temperatures are given in Table 4. Fairly satisfactory agreement was obtained between the calculated values and those obtained experimentally by the authors and by other workers. From the results of their calculations, particularly those given in Table 3, the authors conclude that : (a) above 70 Mc/s the plasma of discharges in air at atmospheric pressure is isothermal, i.e. the electron and gas temperatures are similar; (b) below 30 Mc/s thermal ionization is insufficient to explain the value of electrical conductivity of the discharge plasma. The bulk of the paper deals with discharges in air. In the final section the authors deal briefly with high-frequency flame discharges in other gases. They report that in molecular gases with low thermal conductivity, such as N_2 , O_2 , CO_2 , discharges are similar to those which take place in air: the plasma is hot and in an almost isothermal condition. In molecular gases with high thermal conductivity, such as hydrogen and the town (domestic) gas, it is difficult to reach high

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DOV/51-6-2-1/39

On the Theory of a High-Frequency Flame Discharge

temperature was obtained by generalization of Koppel'man's calculations for H₂ and N₂ (Ref 5). The following equation was then obtained:

$$\lambda = \left\{ 5.00 \times 10^{-8} T^{1.4} + 6.0 \times 10^{-3} [1.0 \times 10^{-3}(T - 4000)] + \right. \\ \left. + 10 \times 10^{-3} \times \Phi_1 [7.78 \times 10^{-4}(T - 7600)] \right\} \quad (3)$$

where Φ_1 is the Gauss distribution function. Solution of the Eqs (1) and (2) leads to expressions (4) and (5), for the inner channel and the outer region respectively. In Eqs (4) and (5)

$$\tilde{\Phi}(x_0) = \int_{-\infty}^{\infty} \Phi_1(x) dx,$$

and T_m , T_{R_1} and T_r are the gas temperatures at the discharge axis, at the inner channel boundary and at a distance r from the discharge axis. At the boundary of the outer channel ($r = R_2$, $T_{R_2} = T_0 = 300^\circ K$) a function $F(T_m)$ is obtained. This function is given by Eq 6 and Fig 1. The authors made some calculations for high-frequency flame discharges all of length l , burning in air under the action of a field with frequency N and power L . The discharges were assumed to take place between a sharp-pointed electrode and a plane antielectrode 5 cm away. The gas temperature at the discharge axis was calculated for values of N from 12.4 to 100 Mc/s and powers L from 20 to 200 W. The results are given

SOV/51-6-2-1/39

On the Theory of a High-Frequency Flame Discharge

on the shape of the electrode. The theory put forward uses the differential Elenbaas-Heller equation under the following conditions. The discharge is assumed to consist of two coaxial cylindrical regions. The electrical energy is transformed into heat in the inner channel of radius R_1 . The power density P (in W/cm^3) is assumed to be uniform inside the inner channel. The outer region is taken to be of radius R_2 and it is assumed that no transformation of electrical energy into heat takes place in that region. Heat is assumed to be lost predominantly in the radial direction. The following differential equation applies in the inner channel:

$$-2\lambda \frac{dT}{dr} = rP, \quad (1)$$

and the conditions in the outer region are governed by:

$$-2\lambda r \frac{dT}{dr} = R_1 P, \quad (2)$$

where T is the temperature, λ is the thermal conductivity of air, r is the radial distance from the discharge axis. Dependence of λ on

Card 2/5

AUTHORS: Grigorovici, Radu and Cristescu, Gheorghe

SOV/51-6-2-1/39

TITLE: On the Theory of a High Frequency Flame Discharge (K teorii vysokochastotnogo fakel'nogo razryada)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 2, pp 129-136 (USSR)

ABSTRACT: The paper gives a quantitative theory of the mechanism of a high-frequency discharge from a single sharp electrode. This discharge is known as the flame discharge. The energy balance in the discharge is taken as the basis of the calculations. If luminescence, which appears near the electrode, is neglected, the discharge may be considered as a region of very hot gas. This gas becomes ionized and heated due to periodic motions of charge carriers. Since the temperature at the discharge axis is much lower than 7000°K both the radiation and ambipolar diffusion losses can be neglected. Natural convection, due to heating and dissociation, does not account for more than a few per cent of the total energy dissipation in the discharge. In the case of forced convection the losses may be larger. The authors conclude that the only important mechanism of energy loss is due to radial thermal conductivity. The discharge is assumed to be of cylindrical shape. Its length and diameter are determined by the rising hot gases and do not depend greatly

GRISTAN, Ye.L.; TURETSKIY, Ya.M.

Selective flotation of low-grade manganese products from
Chitura gravity dressing plants. Gor. zhur. no.6:62-65
Je '62. (MIRA 15:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut
chernoy metallurgii.
(Chiatura--Flotation) (Manganese ores)

TURETSKIY, Ya.M.; SHORYGINA, N.N.; IZUMRUDOVA, T.V.; GRISTAN, V.L.

Using chlorine lignin for the flotation of iron ores. Gidroliz.
i lesokhim. prom. 14 no.8:10 '61. (MIRA 16:11)

GRISTAN, Ye.L.; TURETSKIY, Ya.M.; Prinimali uchastiye; KOLOSKOVA, V.G.;
PESHINA, M.A.; YAKOVLEVA, N.I.; VAYKHEL', A.A.

Dressing iron ores and retreating magnetite concentrates by the
re-flotation method with anion collectors. Gor. zhur. no.12:47-
40 D '61. (MIRA 15:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii im. I.P.Bardina, Moskva.
(Iron ores)
(Flotation)

GRISTAN, Ye. L.

KONTOROVICH, G.I., kandidat tekhnicheskikh nauk; GRISTAN, Ye.L., gornyy
inzhener.

Dressing low-grade manganese products from Chiatura plants. Gor.
zhur. no.8:26-30 Ag '57. (MLRA 10:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metal-
lurgii. (Chiatura--Ore dressing) (Manganese ores)

GRISSEK, B.M., inzh.; ELINZON, M.P., inzh.

Trends in the further development of the porous aggregate
industry. Stroi. mat. 10 no.6:21-24 Je '64.

(MIRA 17:10)

BUDNIKOV, Petr Petrovich; redaktor; BEREZHOV, Anatoliy Semenovich;
BULAVIN, Ivan Anisimovich; GRISSIK, Boris Mikhaylovich;
KUKOLEV, Grigoriy Vladimirovich; POLYBOYARINOV, Dmitriy
Nikolayevich; AVGUSTINIK, A.I., doktor tekhnicheskikh nauk,
professor, retsentz; GLEZAROVA, I.L., redaktor; PANova, L.Ya.,
tekhnicheskiy redaktor.

[Technology of ceramics and refractory materials] Tekhnologija
keramiki i ogneuporov. Pod obshchej red. P.P. Budnikova. Izd.
2-e, perer. Moskva, Gos.izd-vo lit-ry po stroit. materialam,
1955. 698 p. (MLRA 8:12)

1. Dejstvitel'nyy chlen AN USSR. 2. Chlen korrespondent AN SSSR.
(Ceramic industries) (Refractory materials)

CHICAGO, IL, U.S.A.

GRISSIK, B.M.

PHASE X TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 707 - X

BOOK

Call No.: TH807.B9

Authors: BUDNIKOV, P.P., BEREZHOVY, A. S., BULAVIN, I. A., GRISSIK, B. M., KUKOLEV,
G. V. and VOLUBOVARINOV D. N.

Full Title: MANUFACTURE OF CERAMICS AND REFRACTORY MATERIALS

Transliterated Title: Tekhnologiya keramiki i ogneuporov

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Literature on Construction Materials

Date: 1950 No. pp.: 575 No. of copies: 4,000

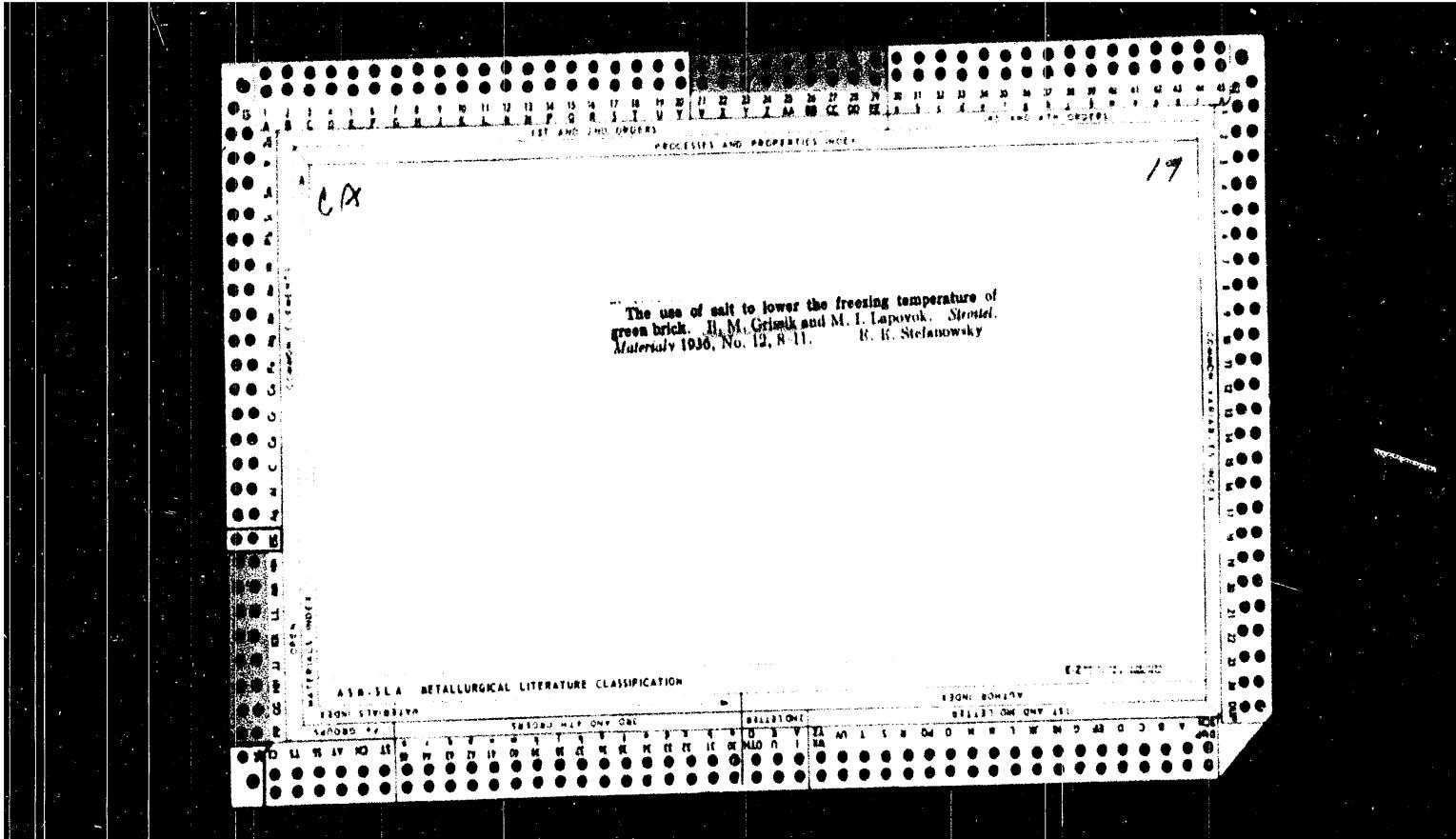
Editorial Staff

Editor: P. P. Budnikov, Member of the Academy of Sciences, Ukrainian SSR

PURPOSE AND EVALUATION: This manual is approved as a textbook for institutes of chemical technology and of construction materials and for students specializing in the technology of silicates. The book compares favorably with its American counterparts, e.g., Volume III of Ceramics by Ed. F. McIlvane (State College, Pa., 1929) and Factory Design and Equipment and Manufacture of Clay Wares by T. W. Garve (N.Y., 1929). All phases of manufacturing are extensively covered and the book can be used as a reference book.

NOTE: See card for BUDNIKOV, I. I. for pages 2-5.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900008-6



BARENBOYM, A.M., kand. tekhn. nauk; GALIBEVA, T.M., inzh.;
GINZBURG, D.B., prof.; GRISSIK, A.M., inzh.; ZIMIN, V.N.,
dots.; KUSYAK, V.A., kand. tekhn. nauk; RUTMAN, E.M.,
inzh.; KHODOROV, Ye.I., kand. tekhn. nauk; CHLEBOKRY,
A.F., kand. tekhn. nauk

[Heat calculations for furnaces and dryers of the silicates
industry] Teplovye raschety pechei i ushilek silikatnoi
promyshlennosti. Izd.2., perer. i dop. Moskva, Stroiz-
dat, 1964. 495 p. (MIRA 17:12)

GRISIJK, A.M.; SATANOVSKIY, L.G.

Standardized flame heating and heat-treating furnaces. Metalloved.
i term. obr. met. no.9:10-34 S '64. (MIRA 17:11)

I. Institut "Teploproyekt".

GRISIJK, A.M., inzh.; SATANOVSKIY, L.G., inzh.

Standardized flame heating and heat-treating furnaces.
Metalloved. i term. obr. met. no.11:36-41 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy
institut po teplotekhnicheskim sooruzheniyam.

(Furnaces, Heating)
(Furnaces, Heat-treating)

GRISSIK, A. M.

"Contemporary Furnaces for the Heat Treatment of Steel Castings." From the book, "Heat Treatment and Properties of Cast Steel," edited by N. S. Kreshchenovskiy, Mashgiz, Moscow 1955.

GRISODUB, Yu.N.

Applied Mechanics
Reviews, V.7

Mar. 1954

Hydraulics; Cavitation;
Transport.

B35. Grisodub, Yu. N., On the calculation of the propagation of harmonic disturbances in hydraulic piping systems in series and in parallel (in Russian), *Zh. tekh. Fiz.*, 21, 6, 604-672, May 1951.

On the basis of electroacoustic and impedance-and-four-pole-theory, formulas for calculation of the harmonic vibration in a hydraulic piping system are obtained. The calculations for the following special cases are carried out: (a) Piping with "stepped" diameter; (b) piping with branches; (c) combination of (a) and (b). The results of calculation are compared with the results of a test series.
M. Strischeletzky, Germany

GRISLIS, V.Ya.

Automatic proportioning device for programmed supply of li-
quids. Biul.tekh.-ekon.inform.Gos.nauch.-isel.inst.nauch. i
tekh.inform. 16 no.11:68-69 '63. (MIRA 16:11)

PLAUDE, Karl Karlovich; GRISLIS, Viktor Yanovich; TEYTEL'BAUM, A.,
red.; LEPBERGA, A., tekhn. red.

[Automatic control of the customer inlet systems in buildings
with heating supplied from central stations] Avtomatizatsiya
abonenteskikh vvodov teplofitsirovannykh zdanii. Riga, Izd-vo
Akad. nauk Latviiskoi SSR, 1961. 29 p. (MIRA 15:3)
(Heating from central stations) (Automatic control)

PLAUME, Karl Karlovich; GRISLIS, Viktor Yanovich; RAMAN, M.L., kand.
tekhn. nauk, retsenzent; VENGRANOVICH, A., red.; BOKMAN, R.,
tekhn. red.

[Automatic control of the regulators of central hot-water heating systems; experience of the Laboratory of Thermal Systems]
Avtomatischeskoe regulirovanie sistem tsentral'nogo vodianogo
otopleniya; opyt rakhety Laboratorii teplovykh sistem. Riga,
Izd-vo Akad.nauk Latviiskoi SSR, 1959. 89 p. (MIRA 14:12)
(Hot-water heating—Regulators)

GRISLIS, V.Ya. [Grislis, V.]

Automatic fermentation unit. Biul. tekhn. ekon. inform. no. 9:61-6.
'59. (MIRA 13:3)
(Yeast) (Riga--Fermentation tube)

PLAUDE, K.K. (Riga); GRISLIS, V.Ya. (Riga)

Room thermoregulators for central heating. Vod. i san.tekh.
no.3:25-27 Mr '59. (MIRA 12:2)

1. Institut energetiki i elektrotehniki AN Latviyskoy SSR.
(Hot-water heating---Regulators)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900008-6

112-57-7-14933

Automatic Direct-Acting Thermocontroller for House-Heating Radiators
hydraulic conditions of 2-pipe heating systems. The thermocontroller with an
AV-4 valve is intended for single-pipe systems. There are 6 illustrations.
Bibliography: 2 items.

I. Ye. K.

Card 2/2

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 7, p 160 (USSR)
112-57-7-149 33
AUTHOR: Plaude, K. K., and Grislis, V. Ya.
TITLE: Automatic Direct-Acting Thermocontroller for House-Heating Radiators
(Avtomatusheskiy termoregulyator pryamogo deystviya dlya radiatordov
otopleniya)

PERIODICAL: Latv. PSR zinatnu Akad. Vestis, Izv. AN latv. SSR, 1956, Nr 8.
pp 115-120

ABSTRACT: A description and technical data are presented of a new type (ATR-2) of automatic direct-acting thermocontroller for central-heating radiators, which is an improvement over the ATR-1 construction (K. K. Plaude and V. Ya. Grislis, Bulletin of the AS Latvian SSR, 1955, Nr 7). The new type of automatic regulator is a 2-position, direct-acting thermocontroller that secures temperature control within $\pm 0.3^\circ\text{C}$; it has two actuating units, types AV-3 and AV-4. In its performance, the ATR-2 thermocontroller with an AV-3 differential valve has a higher resistance characteristic and is more suitable to the

Card 1/2

GRISLIS V.

PLAUME, K: GRISLIS, V.

Automatic thermoregulator for central water-heating radiators.

p. 81 (Voprosy Energetiki) Vol. 4, 1956, Riga, Latvia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EIAI) LC, VOL. 7, NO. 1, JAN. 1958

(*Original Text*)

112-3-6592D

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 3,
p. 211 (USSR)

AUTHOR: Crislis, V.Ya.

TITLE: Automatic Temperature Control in Centrally-Heated
Buildings (Avtomatuskoye regulirovaniye temperatury
pomeshcheniy pri tsentral'nom otoplenii)

ABSTRACT: Bibliographic entry on the author's dissertation for
the degree of Candidate of Technical Sciences, presented
to the Leningrad Construction Engineering Institute.
(Leningr. inzh.-stroit. in-t), Riga, 1956.

ASSOCIATION: Leningrad Construction Engineering Institute (Leningr.
inzh.-stroit. in-t)

Card 1/1

PLAUDE, K.K.; GRISLIS, V.Ya.

Application of electric discharge for recording of observations.
Latv. PSR Zināt. Akad. Vēstis, '51, No.11, 1745-8. (MLRA 6:1)
(SEA 56, no.666:2504 '53)

1. GRISLIS, N.
2. USSR (600)
4. Heat--Conduction
7. Hydraulic calculation of efficient heat conductors. Latv. PSR Zin. Akad. Vestis no. 8 1951.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

GRISLIS, J.

Systems of heat exchange of central water-heating radiators by means of individual automatic regulation of the heating-medium.

p. 53 (Voprosy Energetiki) Vol. 4, 1956, Riga, Latvia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (ESAI) LC, VOL. 7, NO. 1, JAN. 1958

GRISLE, R.

In commemoration of the academic work of philologist Janis
Endzelins. Izv. AN Latv. SSR no. 2:131-132 '63. (MIRA 16:4)
(Endzelins, Janis, 1873-1961)

Grisko, N. V. Synthesis of the Optimizing Control System for an Internal Combustion Engine Under Variable and Steadily Varying Load Conditions

This report discusses the problem of how to increase the efficiency of

internal combustion engines operating under steadily-varying load conditions. The author attempts to solve this problem only by means of automatic control. On the basis of experimental materials, the optimum law of fuel supply corresponding to the load variation is theoretically determined. Maximum engine efficiency should be understood to be the optimum of operation. The optimum law is put into practice by means of an optimizing control system consisting of two parts: (1) a device which transforms vacuum variations in the fuel intake pipe into variations of fuel supply; and (2) an automatic optimizer which determines the optimum law for the stated transformation. There are 6 references: 5 Soviet, and 1 English.

Gukov, V.I. Correction of Aperture Distortion in Photoelectron Devices by Means of a Step-by-Step Filter

35

The author describes methods of correcting aperture distortions by means of a step-by-step filter, and discusses calculation of its parameters and evaluation of the correction. He states that these methods make it possible to increase the speed of operation or the pass band by 170 per cent. Technically the problem is solved very simply by the introduction of delay elements. There are 16 references: 10 Soviet, 4 English, 1 French, and 1 German.

-Card 4/28

СЕКРЕТ, АНА

PHASE I BOOK EXPLOITATION SOV/4403

Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki

Avtomatycheskoye upravleniye; [sbornik rabot] (Automatic Control; Collected Works) [Moscow] Izd-vo AN SSSR [1960] 431 p. Errata slip inserted. 5,500 copies printed.

Ed.: Ya.Z. Tsypkin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: Ye.N. Grigor'yev; Tech. Ed.: G.A. Astaf'yeva.

PURPOSE: This collection of reports is intended for scientists and engineers engaged in the study of automation.

COVERAGE: The collection contains reports presented at the 6th Conference of Young Scientists of the Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics of the Academy of Sciences USSR) in January 1959. The collection covers a wide range of scientific and technical problems connected with automatic control. No personalities are mentioned. References accompany each report.

TABLE OF CONTENTS:

Gard-47-28

GRISKIN, Ya.P.

Clinical value of ballistocardiography in young hypertensive
patients. Klin. med. 41 no.9:126-130 S'63 (MIRA 178)

GRISKIN, Ya. P.; RASKIN, A. Z.

Clinical aspects of heat prostration. Klin. med. no. 9:122-124
'61. (MIRA 15:6)

(HEAT STROKE)

CRISKIN, Ya.P. (Mary)

On the problem of clinical aspects of gasoline pneumonia. Klin.
med. 38 no.10:110-111 0 '60. (MIRA 10:11)
(GASOLINE—TOXICOLOGY) (PNEUMONIA)

GRISKIN, Ya.P.; MAKSIMOV, L.D.

Myocardial infarct in a young man. Sov.med. 23 no.8:106-109 Ag '59.
(MIRA 12:12)
(MYOCARDIAL INFARCT case report)

GRISIN, I.

Soviet machinery industry at the international fair in Brno. p. 689.

TECHNICKA PRACA. Bratislava, Czechoslovakia. Vol. 11, no. 9,
September 1959.

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 11,
November 1959.

Uncl.

VEYSEYSKAYA, N.D.; BABUSHKINA, T.V.; PAKHAYEV, A.K.; CRISHNIN, Yu.P.

Effect of aldehydes on the rate of polymerization of butadiene
and methyl styrene. Kaučuk i rez. 24 no.8:51-165.
(MIA:PA:10)

1. Karagandinskiy zavod sinteticheskogo kaučuka.

L 45258-65

ACCESSION NR: AP5005394

ASSOCIATION: Karagandinsk zavod SK (Karagandinsk Factory, SK)

SUBMITTED: 00

ENCL: 00

SUB CODE: 00

NO REF SovI: 003

OTHER: 001

163 6
Card 2/2

I-45258-65 ERT(c)/EWP(j)/EWI(m)/T Po-4/Pt-4 BM
ACCESSION NR: AP5005394 S/0138/55/000/002/0046/0016

AUTHORS: Bakhayev, A. X.; Veyseyanskaya, N. D.; Grishutin, Yu. P. 2 7

TITLE: Effects of different amounts of phenol in α -methylstyrene on the kinetic process of polymerization of butadiene and α -methylstyrene

SOURCE: Kauchuk i resina, no. 2, 1965, 46

TOPIC TAGS: polymer, butadiene, alpha methylstyrene, phenol, polymerisation/SKMS 30 EP resin

ABSTRACT: To investigate the findings of K. Beresan, A. Dobromyslova, and B. Dogadkin (Izv. AN SSSR, ser. khim. 409, 1936) that phenols and primary and secondary amines inhibit the polymerisation of butadiene, the effects of different amounts of phenol in α -methylstyrene on the kinetic process of copolymerization of butadiene and α -methylstyrene were investigated. The copolymerisation was performed at 50 + 20 for 18 hrs, according to the process for obtaining resin SKMS-30 EP using 0-30 mg/gm of phenol. The results showed that at a phenol content of 6 mg/gm the reaction rate decreased 20-25%, while at a content of 9-12 mg/gm the copolymerisation process had essentially stopped. Orig. art. has: 1 table.

Cord 1/2

SHLYAKHTIN, Ye.I.; ZHOROVA, A.G.; ANANCHENKO, M.V.; GRISHUTIN, V.G.;
IVANOV, V.I.; DORONIN, A.A.; POPOVA, M.S., inzh.; TARASENKO, I.I.;
ROMANOV, A.I.; ZHUKOV, A.V.; LAPTEV, G.I., inzh.

Who should perform the forwarding and carrier services?
Zhel. dor. transp. 45 no. 6:42-45 Je '63. (MIRA 16:7)

1. Zamestitel' nachal'nika stantsii Smolensk Moskovskoy dorogi
po gruzovoy rabote (for Shlyakhtin). 2. Nachal'nik pogruzkontory
stantsii Smolensk Moskovskoy dorogi (for Zhorova). 3. Zave-
duyushchiy gruzovym dvorom stantsii Smolensk Moskovskoy dorogi
(for Ananchenko). 4. Nachal'nik tovarnoy kontory stantsii
Smolensk Moskovskoy dorogi (for Grishutin). 5. Zaveduyushchiy
konteynernoy ploshchadkoy stantsii Smolensk Moskovskoy dorogi
(for Ivanov). 6. Sekretar' partiynogo byuro stantsii Smolensk
Moskovskoy dorogi (for Tarasenko). 7. Stantsiya Smolensk
Moskovskoy dorogi (for Doronin, Romanov, Popova). 8. Upravlya-
yushchiy Smolenskim oblastnym avtotrestom (for Zhukov).
(Freight and freightage)

YANOVSKY, L.S.; GLAZUNOV, G.P., fizik., retrement: V.G. KLEIN, A.A.,
Inzh., red.

[Level indicators; their design and use] Preobrazovaniye ioniziruyushchi
rasheta, primenenie. Reskva, Izd-vo "Radio i Svyaz," 1964,
190 p.
(GILIA 1975)

YAKOVLEV, Leonid Georgiyevich; GRISHUNIN, G.D., inzh., retsentent; NIKIFOROV, R.A., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Errors of checking and measuring instruments and pickups] Pogreshnosti kontrol'no-izmeritel'nykh priborov i datchikov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 154 p.
(MIRA 14:8)

(Measuring instruments) (Transducers)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900008-6

BRUNSKOVA, M.Kh.

Key ultramicrographic analysis of the mechanism of development of initial hypothermic shock following the administration of propylene oxide in the rat. (U.S.S.R.)
Tsvet. prom. SSSR 1971 (1972) 10: 100-103.

U.S.S.R. / Human and Animal Physiology. Thermalregulation.

Abs Jour: Ref Zhur-Biol., No. 5, 1958, 22028.

Abstract: injection of pyrogenic materials (culture of *B. mesentericus* or turpentine) as a result of reflex inhibition of thermoregulating centers of the sub-cortex. The shortening of the latent period following injection of the culture is associated evidently with the excitation of the corresponding reflex centers (by positive induction). The prolongation of the LP following injection of turpentine is explained by the action of the painful irritation.

Card 3/3

U.S.S.R. / Human and Animal Physiology. Thermalregulation. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22028.

Abstract: cords (T11-T12) or with denervated kidneys weakened the hypothermic phase and intensified the febrile phase. The injection of 3ml vaseline oil (mineral oil) into the kidney had no effect on the LP of nonconditioned reflexes, or on the febrile reaction. The injection of 0.2ml of turpentine in the kidney, in the perirenal tissues and under the peritoneum, produced prolongation of the LP of the reflexes. The hypothermic phase was deep and prolonged. Section of the spinal cord or atropinisation of the animal decreased the hypothermia and the rate of reflex changes produced by injection of turpentine. One should consider the marked initial lowering of body temperature following in-

U.S.S.R. / Human and Animal Physiology. Thermoregulation. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22028.

Author : Grishukova, M. Kh.

Inst : Not given.

Title : Temperature Reaction and Changes of the Latent Period of the Flexor and Blinking Reflexes Produced by Injection of Pyrogenic Agents in the Kidney.

Orig Pub: Fisiol mekhanismy liknoradochn reakcii, L., Medgiz 1957, 183-196.

Abstract: Injection of killed culture of *Bacillus mesentericus* (1ml/mg) in the kidney of rabbits shortened the latent period (LP) of the flexor and blinking reflexes. The injection of culture in the kidney of rabbits with sectioned spinal

Indonesia, N. Sum.

Malayasia, S. Sum.

"On Relationships of the Temperature, Humidity, and Circulation and of
Circulation in the Large, Relatively Isolated, and High Plateau
in the Highlands." Dept. of Meteorological Services, London, 1954.
(Information from the Bureau of Geophysics, Manila)

DD: Katsberg, Lohman, E., M., 2 July 1956

GRISHUKOV, Lev Sergeyevich

Adjustment of the commutation of a d.c. machine. Izv. vys. ucheb. zav.; elektromekh. 8 no.10:1123-1127 '65.

(MIHA 18:11)

1. Starshiy inzhener problemnoy laboratorii elektricheskoy tyagi kafedry elektricheskikh mashin Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta. Submitted March 9, 1964.

GRISHUKOV, Lev Sergeyevich,

Adjustment of the commutation of single-phase collector-type
traction motors. Izv. vys. ucheb. zav.; elektromekh. 6 no.4:
470-476 '63. (MIRA 16:7)

1. Starshiy inzhener kafedry elektricheskikh mashin Leningradskogo
instituta inzhenerov zhelезнodorozhnogo transporta.
(Electric railway motors)

GRISHUKOV, L.S., inzh.

Study of the commutation of single-phase series motors. Izv.vys.
ucheb.zav.; elektromekh. 5 no.4:464-469 '62. (MIRA 15:5)
(Electric railway motors)

GRISHUKOV, L.S., inzh. (g.Leningrad); LUPKIN, D.M., dotsent (g.Leningrad);
~~TIMOFEYEV, B.A., inzh. (g.Leningrad)~~

Main line electric locomotive operated on direct and alternate
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(Electric locomotives)

GRISHUK, V. P. & ZAKLINSKAYA, Ye. D.

Analiz izkopeyanykh nyl'tey i sper i eve primeoniye v paleogeografii
(An Analysis of Fossils of Pollen and Spores and Its Application in
Paleogeography), Opis, Geografgis, 1948.

Approximate method...¹

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equivalent time constant of the aperiodic element Ta can be determined by corresponding approximation of the amplitude-phase characteristic of the system. The stability of this system is investigated by the frequency method. Designations of the system parameters which secure the necessary margin of stability, are determined. The parameters of the system adjustment that result in the following process quality indicators are found: overshoot, error and regulation time. 5 references. [Abstracter's note: Complete translation]

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AUTHORS: Grishuk, V.P., Samoylenko, Yu.I

TITLE: Approximate method for selecting optimum adjustments of an intermittent regulation system

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1961, 43, abstract 9 V347 (V sb. Avtomatiz. i priborostroyeniye, no. 1, Kiyev, Gostekhizdat USSR, 1959, 80-87)

TEXT: An impulse system of automatic regulation consisting of a first order object with a delay, an impulse element of the second type and a servomotor with constant speed, is examined. The proposed method of its analysis is based on substitution of the actual system of intermittent regulation by a certain system equivalent to it as far as the parameters of the regulator adjustment are concerned, whose linear part includes an aperiodic element, an integrating element and a delay element. The equivalent delay time τ and the

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GRISHUK, I. K.

Heat Engineering

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